

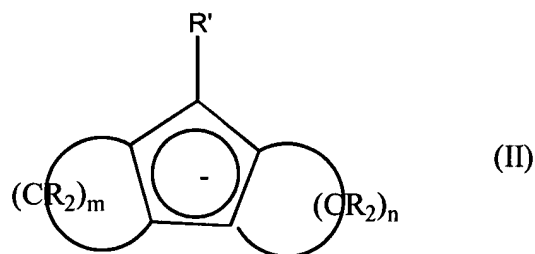
AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

LISTING OF CLAIMS:

1-22. (Canceled).

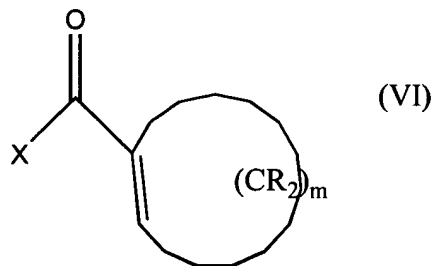
23. (Withdrawn): A process for the preparation of a cyclopentadienylic compound of formula (II):



which comprises reacting, in an acid medium, a cycloalkene of formula (V):



with a 1-cycloalkene derivative of formula (VI):



wherein n and m, the same or different from each other, are integers from 2 to 6 inclusive,

the R substituents, the same or different from each other, are hydrogen atoms, C₁-C₂₀ alkyl radicals, C₃-C₂₀ cycloalkyl radicals, C₂-C₂₀ alkenyl radicals, C₆-C₂₀ aryl

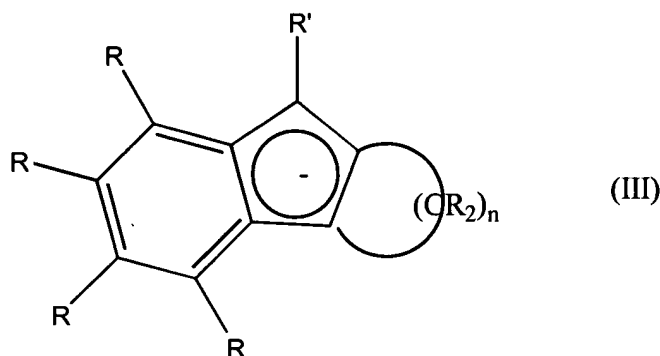
radicals, C₇-C₂₀ alkylaryl radicals, C₇-C₂₀ arylalkyl radicals, wherein two adjacent R substituents may form a C₅-C₈ cycle,

the R' substituents being defined in the same way as the R substituents or as a group capable of forming part of a divalent bridging group of formula (YR_p)_q, Y being selected from the group consisting of C, Si, Ge, N or P, p being 1 when Y is N or P, and p being 2 when Y is C, Si, or Ge, q being selected from 1, 2, or 3, and

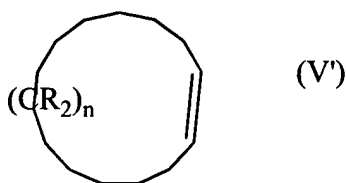
and X being selected from the group consisting of OH, OR, O(CO)R, Cl, or Br.

24. (Withdrawn): The process according to claim 23, wherein at least one R substituent contains at least one atom selected from the group consisting of Si or Ge.

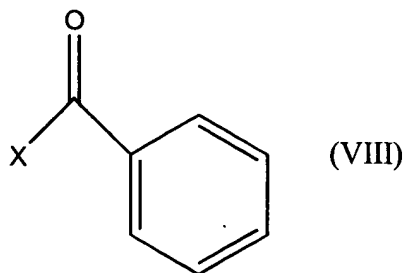
25. (Withdrawn): A process for the preparation of a cyclopentadienylic compound of formula (III):



which comprises reacting, in an acid medium, a cycloalkene of formula (V'):



with a benzene derivative of formula (VIII):



wherein n is an integers from 2 to 6 inclusive,

the R substituents, the same or different from each other, are hydrogen atoms, C₁-C₂₀ alkyl radicals, C₃-C₂₀ cycloalkyl radicals, C₂-C₂₀ alkenyl radicals, C₆-C₂₀ aryl radicals, C₇-C₂₀ alkylaryl radicals, C₇-C₂₀ arylalkyl radicals, wherein two adjacent R substituents may form a C₅-C₈ cycle,

the R' substituents being defined in the same way as the R substituents or as a group capable of forming part of a divalent bridging group of formula (YR_p)_q, Y being selected from the group consisting of C, Si, Ge, N or P, p being 1 when Y is N or P, and p being 2 when Y is C, Si, or Ge, q being selected from 1, 2, or 3, and

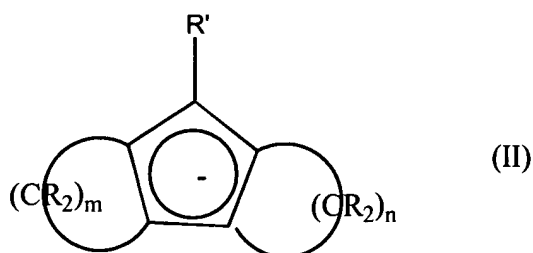
and X being selected from the group consisting of OH, OR, O(CO)R, Cl, or Br.

26. (Withdrawn): The process according to claim 25, wherein at least one R substituent contains at least one atom selected from the group consisting of Si or Ge.

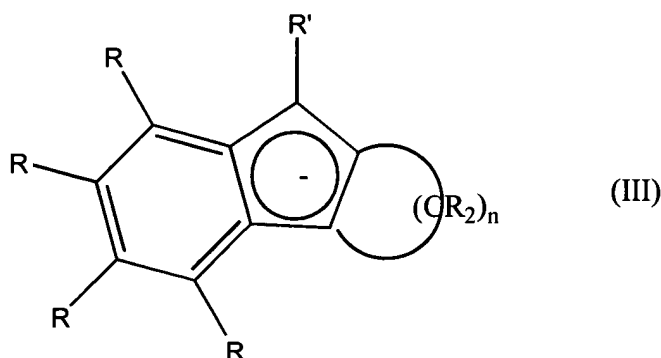
27. (Presently amended): A cyclopentadiene ligand of formula of formula (XI):



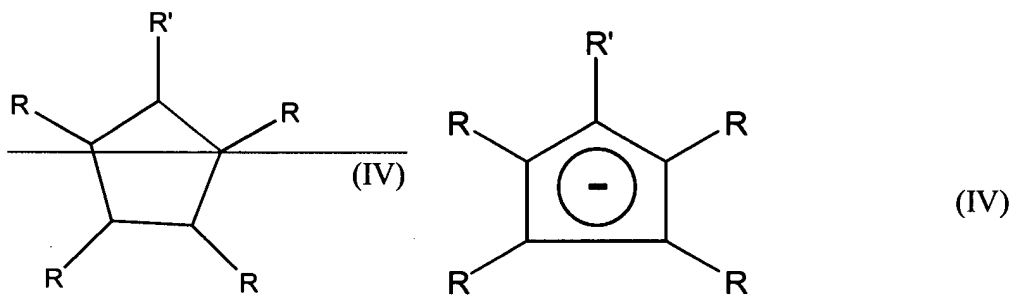
wherein Cp is a group selected from the group consisting of groups of formula (II):



and [[or]] (III):



Cp' is a group selected from the group consisting groups of formula (II), (III), and [[or]] (IV):



wherein n and m, the same or different from each other, are integers from 2 to 6 inclusive,

the R substituents, the same or different from each other, are hydrogen atoms, C₁-C₂₀ alkyl radicals, C₃-C₂₀ cycloalkyl radicals, C₂-C₂₀ alkenyl radicals, C₆-C₂₀ aryl radicals, C₇-C₂₀ alkylaryl radicals, C₇-C₂₀ arylalkyl radicals, wherein two adjacent R substituents may form a C₅-C₈ cycle,

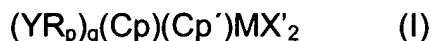
the R' substituents being defined in the same way as the R substituents or as a group capable of forming part of the divalent bridging group of formula $(YR_p)_q$,

Y being selected from the group consisting of C, Si, Ge, N or P, p being 1 when Y is N or P, and p being 2 when Y is C, Si, or Ge, q being selected from 1, 2, or 3, and

X being selected from the group consisting of OH, OR, O(CO)R, Cl, or Br.

28. (Previously presented): A catalyst for the polymerization of olefins comprising the reaction product between:

(A) a metallocene compound of formula (I),



wherein $(YR_p)_q$, (Cp), and (Cp') have the meanings given above in claim 27, except that q can also be 0, M is a transition metal selected from the group consisting of Ti, Zr or Hf, and the X' substituents, the same or different from each other, are selected from the group consisting of halogen atoms, -OH, -SH, -R, -OR, -SR, -NR₂, or PR₂, R having the meaning given above,

- (B) an aluminoxane, optionally in admixture with a organo-aluminium compound of formula AlR^4_3 or $Al_2R^4_6$, in which the substituents R⁴, same or different from each other, are defined as above or one or more compounds capable of forming an alkyl metallocene cation.

29. (Previously presented): The catalyst of claim 28, wherein component (A) is the reaction product of metallocene (I) with a organo-aluminino compound of formula AlR^4_3 or $Al_2R^4_6$, in which the substituents R⁴, same or different from each other are R¹ or halogen.

30. (Previously presented): A catalyst according to claim 28, wherein the metallocene compound of formula (I) is selected from dimethylsilanediyl-bis (2, 3-cyclotetramethyleneinden-1-yl) zirconium dichloride, dimethylsilanediyl-bis (octahydrofluorenyl) zirconium dichloride, isopropyliden(cyclopentadienyl)(2, 3-cyclotetramethyleneinden-1-yl) zirconium dichloride, and isopropyliden(cyclopentadienyl)(2, 3-cyclotetramethyleneinden-1-yl) hafnium dichloride.

31. (Previously presented): The catalyst according to claim 28, wherein the alumoxane is selected from methylalumoxane and isobutylalumoxane.

32. (Withdrawn): A process for the polymerization of olefins comprising the polymerization reaction of at least one olefinic monomer in the presence of the catalyst of claim 28.

33. (Withdrawn): The process according to claim 32, wherein ethylene is copolymerized with at least one higher olefin.

34. (Withdrawn): The process according to claim 33, wherein the product is an LLDPE copolymer.

35. (Withdrawn): The process according to claim 33, wherein the product is an elastomeric copolymer of ethylene with alpha-olefins of the formula $\text{CH}_2=\text{CHR}$, wherein R is an alkyl radical having from 1 to 10 carbon atoms.

36. (Withdrawn): The process according to claim 35, wherein the product is an elastomeric copolymer of ethylene with alpha-olefins of the formula $\text{CH}_2=\text{CHR}$, wherein R is an alkyl radical having from 1 to 10 carbon atoms, and wherein the product further contains a small proportion of units deriving from polyenes.

37. (Withdrawn): The process according the claim 36, wherein the proportion of units deriving from polyenes is from 0.1 to 20% by weight.

38. (Withdrawn): A process for the oligomerization of propylene, the process comprising oligomerizing propylene in the presence of the catalyst of claim 28.